| index of Claims |             |    |          |          |          |   |          |        |  |               | Application/Control No.  10/523,135  Examiner |            |           |          |        |        |              |          |          |          | Applicant(s)/Patent under Reexamination |          |          |                |          |    |                                |               |                   |              |   |   |
|-----------------|-------------|----|----------|----------|----------|---|----------|--------|--|---------------|---|------------|-----------|----------|--------|--------|--------------|----------|----------|----------|---|----------|----------|----------------|----------|----|--------------------------------|---------------|-------------------|--------------|---|---|
|                 |             |    |          |          |          |   |          |        |  | L             |   |            |           |          |        |        |              |          |          |          | SMITH, DOUGLAS                          |          |          |                |          |    | .BEF                           |               |                   |              |   |   |
| 128191          |             |    |          |          |          |   |          |        |  |               |   |            |           |          |        |        |              |          |          |          |   | Art Unit |          |                |          |    |                                |               |                   |              |   |   |
|                 |             |    |          |          |          |   |          |        |  |               |   |            |           |          |        | Hos    | 200          | . RA     | N        | guy      | on                                      |          |          |                | 27       | 48 |                                |               |                   |              |   |   |
|                 |             |    |          |          | _        | _ |          |        |  |               |   |            |           |          |        | 100    | 3119         | 141      | - 14     | yuy      | CII                                     |          |          |                | 3/       | 40 |                                |               |                   | <u> </u>     |   |   |
| √ Re            |             |    |          | Rejected |          |   |          |        | (Through numer<br>Cancelled            |               |   | erel       | rel)      |          | M      | Non-   |              | Elec     | Elected  |          | A                                       | Appeal   |          |                |          |    |                                |               |                   |              |   |   |
| =               |             |    | 4        | Allowed  |          |   | 1        |        | +                                      |               |   | Restricted |           |          |        |        |              | -        | Interfe  |          | erence                                  |          | 1        | 0              | Objected |    |                                |               |                   |              | • |   |
| Cla             | im          | _  |          |          |          | _ | ate      |        | _                                      | $\overline{}$ | _   |            |           |          |        |        |              | _        | _        |          |   | _        |          |                |          |    |                                |               |                   |              |   |   |
|                 |             | 08 | l m      | ı i      | <b>7</b> | Ť | ale<br>T | _      | т-                                     | Н             | ┝   | Clai       |           | _        |        | T      | Date         | ę        |          |          | 4                                       | <u></u>  | laim     | L,             |          |    | Date                           |               |                   |              | ] |   |
| Final           | Original    | 1  | €        | ۱ (      | 7        |   |          |        |  |               |   | Final      | Original  |          |        |        |              |          |          |          |   | Final    | Original |                |          |    |                                |               |                   |              |   |   |
|                 |             | L  | H        | t        | +        | + | +        | ╈      | ╁                                      | Н             | -   | $\dashv$   | 51        | $\dashv$ | +      | +-     | -            | H        | -        | $\vdash$ | -                                       | _        | 101      | Н              | _ _      | 4  | Н                              | $\sqcup$      | $\bot$            | $\perp$      | 1 |   |
|                 | 2           |    |          | I        | $\perp$  | I | I        | I      |  |               |   |            | 52        | 十        | +      | +      | H            | H        | $\dashv$ | ┝╌╂╴     | +                                       | ┝        | 102      | $\vdash$       | ┿        | ╁  | ╂                              | $\vdash$      | -                 | ╀            | ┧ |   |
| -               | <u> </u>    | _  | ⊢        | ╀        | +        | 4 | +        | 4      | ╀                                      | Ц             |   |            | 53        | $\perp$  | I      | $\Box$ |              |          | ٦        |          | 7                                       | _        | 103      | H              | +        | 十  | +                              | H             | +                 | ╁            | ł |   |
| $\dashv$        | -           | ├  | ┝        | ╀        | ╫        | + | +        | +-     | ╄                                      | Н             | -   |            | 54        | 4        | _      | L      | lacksquare   | $\Box$   |          | $\Box$   | ]                                       |          | 104      |                |          |    | П                              | 1             | $\top$            | +            | 1 |   |
| _               | F           | ┝╌ | ┝        | ╁        | +-       | ╁ | +        | ┿      | ╀                                      | Н             | ⊢   |            | 55        | +        | ┸      | ╄      | L            | Ц        | _        | $\perp$  | ַ וַ                                    |          | 105      |                |          |    |                                |               |                   |              | 1 |   |
|                 | F           | ┢╌ | ┝        | t        | ╈        | ╅ | +        | ┿      | ╁                                      | Н             | ⊢   |            | 56<br>57  | -        | +      | ╄      | ┦            | $\vdash$ | 4        | -        | 4                                       | <u> </u> | 106      | Ш              |          |    |                                |               |                   |              | ] |   |
|                 | -           | _  | ┢┈       | t        | +        | + | ╅        | ╈      | ╁╌                                     | Н             | -   |            | 58<br>58  | +        | ╄      | ┿      | Н            | $\sqcup$ | 4        | 4        | 4 .                                     | <b>-</b> | 107      | Ш              |          | ┸  | $oldsymbol{oldsymbol{\sqcup}}$ |               | $oldsymbol{\bot}$ | $\perp$      | ] | • |
|                 | •           |    |          | t.       | 1        | ╅ | +        | ╈      | ╁                                      | Н             | $\vdash$                                      |            | 59        | +        | ╁      | ╁      | Н            | ⊢        | -        |          | <b>⊣</b> i                              | <b> </b> | 108      | $\vdash$       |          | ┥  | ┦                              | $\dashv$      | ┵                 |              | ] |   |
|                 | (0)         |    |          | ۲.       | ず        | + | $\top$   | †-     | T                                      | Н             | ┝   |            | 60        | -        | ╁      | ┿      | Н            | $\vdash$ | -        | -        | -                                       | <b>-</b> | 109      | $\sqcup$       |          | +  | $\sqcup$                       | _             | ᆚ                 | 1_           | ļ |   |
|                 | 11          | 5  | G        | 1        | 7        | 1 | ┱        | $\top$ | 1                                      | Н             |   |            | 61        | ╅        | +      | ╁      | Н            | ⊢        | -1       | +        | ┨                                       |          | 110      | $\vdash$       | +        | -  | ₩                              | $\dashv$      | _                 | ┺            | l |   |
|                 | 12          | Ш  |          | L        | $\Pi$    | T | $\top$   | Т      | T                                      | П             |   |            | 62        | +        | +      | +-     | Н            | $\vdash$ | ┪        | +        | -                                       |          | 111      | ┥              | +        |    | ╀╌┤                            | -             | 4                 | <del> </del> | l |   |
|                 | 13          | Ц  | Ц        |          | Н        |   | $\Box$   | Τ      | T                                      | П             |   |            | 63        | +        | +      | 十      | Н            | $\vdash$ | -        | +        | ┥.                                      | ├—       | 113      | <del>   </del> |          | -} | ╁┤                             | -+            | -                 | ∔_           | ł |   |
|                 | 14          | Ц. | Ц        | Ц        | L        | Γ | $\perp$  | L      |  |               |   | 丁          | 64        | $\top$   | $\top$ | †      | Н            | $\vdash$ | $\dashv$ | +        | 1 1                                     | ├        | 114      | ╀╌┤            |          | +- | ╁                              | -+            | +                 | ┿            | 4 |   |
|                 | <b>(22)</b> | Щ  | Ц.       | Ц        | Ц,       | 4 | ┸        | L      |  |               |   |            | 65        |          | 1      | Τ      | П            | $\vdash$ | 7        | $\dashv$ | 1                                       | $\vdash$ | 115      | $\vdash$       | -        | +- | ╅┪                             | $\dashv$      | +                 | ┿            | 1 |   |
| $\dashv$        | 16          | Ą  |          |          |          | 4 | 4        | Ļ      | ــــــــــــــــــــــــــــــــــــــ |               |   |            | 66        | I        |        | Т      | П            | $\vdash$ | 7        | $\top$   | 1                                       |          | 116      | ╅              |          | +- | ╁┤                             | $\dashv$      | +                 | ╆            | 1 |   |
|                 | 17<br>18    | 4  | <u> </u> | Ľ        | 4        | 4 | 4-       | ╀      | Ļ.                                     | Ш             |   | _          | 67        | I        | Ι      |        |              | $\Box$   | 7        | 十        | 1 1                                     |          | 117      | $\vdash$       | +        | +- | + +                            | $\dashv$      | $\dashv$          | +-           |   |   |
|                 | 19          |    | _        | ╀        | ╀        | ╀ | 4        | 4      | <b> </b>                               | Щ             | <b>_</b>                                      |            | 68        | $\perp$  |        |        |              |          | J        |          | ] [                                     |          | 118      | П              | _        | +  | 1 1                            | $\dashv$      | +                 | +            |   |   |
| _               | 20          | L  |          |          |          | ı | ı        | 1      | 1                                      | 1             |   | - 1/       | <b>69</b> | - 1      |        |        | ı — <b>T</b> |          | _        |          | 7 I                                     |          | 119      | -              | _        | -  | -                              | $\rightarrow$ |                   | -            | i |   |

|  |   | <del>-1-1</del> | -           | <del></del>    | l        | 1 30 | ₩                  | _       |              | ш        |                 |                         |          | L        | 106 | 1               | li               | - 1          | - !          |             | 1 /       |              | i        |
|--|---|-----------------|-------------|----------------|----------|------|--------------------|---------|--------------|----------|-----------------|-------------------------|----------|----------|-----|-----------------|------------------|--------------|--------------|-------------|-----------|--------------|----------|
| -  | <del>                                      </del> |                 |             | -              | <u> </u> | 57   | $oldsymbol{\perp}$ | !       |              | L        |                 | $\perp$                 |          |          | 107 |                 | $\Box$           | $\neg$       | T            | $\top$      | $\vdash$  | П            | Г        |
| -  | <del>             </del>                          |                 | $\dashv$    | _              | <u> </u> | 58   | Ш                  |         |              |          |                 | TT                      | $\neg$   |          | 108 | 1               |                  | 1            | _            | 1           | 1-1       | Н            | _        |
| <b>—</b>   |   | $\sqcup$        | $\dashv$    |                | L        | 59   | Ш                  |         |              | ГΤ       | 1               | ТТ                      | $\neg$   |          | 109 | M               | $\neg$           | _            | ╅            | ╅           | +-        | Н            | ⊢        |
| -  |   |                 |             | لسلم           |          | 60   | П                  | Т       | Т            | П        | $\neg$          | $\top$                  |          |          | 110 | Н               | -+               | +            | ╅            | +           | +         | Н            | ⊢        |
| -  |   |                 |             |                |          | 61   | П                  |         | 1            | П        | $\neg$          | ╅                       | ヿ        | _        | 111 | Н               | $\dashv$         | -            | ╅            | ╁           | ╂╌┦       | Н            | $\vdash$ |
| _  | 12  | $\perp$         | $\Box$      |                |          | 62   | П                  | T       | 1            | Н        | _               | 17                      | ٦        | _        | 112 | -               | $\dashv$         | ╅            | +-           | ┿           | ╁┵        | Н            | -        |
| $\perp$  | 13  |                 |             |                |          | 63   | I                  | $\neg$  | $\top$       | $\vdash$ | 十               | ╅                       | ⊣        | -        | 113 | -               | -                | +            | ┿            | +-          | ₩         | Н            | Η-       |
| <u> </u>   | 14  |                 |             | $\Box$         |          | 64   | Н                  |         | +            | H        | -+-             | ╅┪                      | $\dashv$ |          | 114 | +               | -                |              | ┿            | +-          | ₩         | H            | <b>—</b> |
| <u> </u>   | (15)  | $_{\perp}$      |             |                |          | 65   | $\Box$             | _       | +            | $\vdash$ | -+-             | +-                      | $\dashv$ | $\vdash$ | 115 | $\vdash$        | -+               | +            | +            | ┰           | ₩         | $\vdash$     | _        |
| L  | 16  | $\Box$          |             | $\neg \Box$    |          | 66   | $\Box$             | _       | +            | 1        | +               | +                       | -1       | -        | 116 | -               | -                | +            | +            | 4           | ╀┦        | $\vdash$     | _        |
| L_   | 17 12 J   | TT              | $\neg \neg$ | $\neg \neg$    |          | 67   | $\vdash$           | $\neg$  | +-           | $\vdash$ | +               | ╁╼╁                     | -        | -        | 117 | $\vdash$        | +                | +            | 4            | -           | ₩         | $\vdash$     | <b>—</b> |
| L.   | 18  | $\Box$          | $\neg \neg$ | $\neg \neg$    |          | 68   | 1-1                | _       | +-1          | $\vdash$ |                 | ╅                       |          | ┝        |     | Н               | -+               | +            | 4            | _           | H         | $\sqcup$     | $\vdash$ |
|  | 19  |                 | $\neg \neg$ |                |          | 69   | <del>   </del>     | _       | +            | -        | +-              | ╅┽                      | -        | -        | 118 | Н               | -                | -            | ╀            | 4_          | ┦         | Ш            | _        |
|  | 20  |                 | $\neg$      | $\dashv\dashv$ | <u> </u> | 70   |                    | +       | +            | +        | +               | ╅                       |          | -        | 119 | $\vdash \vdash$ | -                | 4            | 4            | ╄           | ₩         | Ш            |          |
|  | 21  | $\neg$          | $\neg$      | $\dashv\dashv$ | <b>—</b> | 71   | ┢═╅                | -       | +            | $\vdash$ | +               | ┿╃                      | $\dashv$ | <b>⊢</b> | 120 | ₩               | -                | 4            | ╀            | ↓_          | ┦         | Ш            |          |
|  | 22  | $\top$          | 1-1         | $\dashv\dashv$ | -        | 72   | ┥                  | +       | ╁┈┤          | -        | +               | ╅╃                      |          | <b>⊢</b> | 121 | Щ               |                  | <b>丄</b>     | 丰            | 1_          | ш         | Ш            | _        |
|  | 23  | $\dashv \dashv$ | $\dashv$    | ╅┥             | <u> </u> | 73   | $\vdash$           | +       | +-1          | $\dashv$ | +               | ┿┼                      | -        | <u> </u> | 122 | $\sqcup$        |                  | 4            | 1            | L           | Ш         | $\Box$       |          |
| $\Box$   | 24  | 11              | $\dashv$    |                | -        | 74   | ┝╌┼                |         | ╌            | -+       | -               | ╀                       |          | _        | 123 | Ш               | _                |              | _            | 1_          | Ш         | $oxed{oxed}$ |          |
| $\Box$   | 25  | 11              |             | $\dashv$       | <b></b>  | 75   | ⊢⊦                 | -       | Н            | -        | -               | +                       |          |          | 124 | Ш               | _                |              | L            | <u>_</u>    | $\square$ | $\Box$       |          |
|  | 26  |                 | $\dashv$    | -1-4           | <u> </u> | 76   | ┝╼┼                | -       | ╁╌┥          | -        | _               | +                       | 4        | <u> </u> | 125 |                 | ┸                |              |              | L           |           | $\Box$       |          |
|  | 27  | ╅┼              | -           | +              |          | 77   | ₩                  |         | ₩            | -        | —               | +                       | _        | $\vdash$ | 126 |                 | L                | _L_          |              |             |           | $\Box$       |          |
|  | 28  | +-+             | - 1 - 1     | -+-1           | <b>⊢</b> | 78   | ⊢                  |         | ┥            | 4        |                 | $\downarrow \downarrow$ | 4        | L.       | 127 | $\Box$          |                  | L            |              | $\Gamma$    | $\Box$    |              | _        |
|  | 29  | ++              | -1-1        |                | -        | 79   | $\vdash$           |         | +-+          | 4        | —               | $\bot \bot$             | _        | L        | 128 | Ш               |                  | 丄            | $\mathbf{I}$ |             |           |              | _        |
|  | 30  | ++              | -+-+        | -+-            | <u> </u> | 80   |                    | -       | ┦┩           | 4        | _               | $\sqcup$                | _        | <u></u>  | 129 |                 |                  |              |              |             | П         | $\Box$       |          |
|  | 31  | ++              | +-+         | ╅┥             | <u> </u> | 81   | $\vdash$ +         | -       | +            | 4        | <del>_</del>  _ | ₩                       | _        | <u></u>  | 130 |                 | -L               |              |              | L           |           | $\Box$ T     | _        |
|  | 32  | ++              |             | ╅              |          | 82   | $\vdash$           | -       | ↤            | -        | -               | ┷                       | 4        | L.       | 131 | $\sqcup$        | $\perp$          |              |              |             | $\Box$    | $\Box$       | _        |
|  | 33  | +               | ++          |                |          | 83   | ┝╾┿                |         | ╀┩           |          |                 | <b>↓</b>                | _        | <u></u>  | 132 |                 |                  | 1_           | L            |             |           |              |          |
|  | 34  | -    -          | +           | ++             | $\vdash$ | 84   | -                  | -       | ₩            | -        |                 | 1 1                     | _        |          | 133 | i               | $_{\perp}\Gamma$ |              |              |             | $\Box$    | T            |          |
|  | 35  | ++              | ++          | $\dashv\dashv$ |          | 85   | $\vdash$           | +       | ₽₽           | -        | _               | $\perp$                 | _        | L        | 134 | $\perp$         |                  |              |              | $I \square$ |           | $\top$       |          |
|  | 36  | 1-1             |             | -+-1           | $\vdash$ | 86   | $\rightarrow$      |         | $\vdash$     | -        | -               | $\perp$                 | _        |          | 135 |                 |                  |              |              |             |           |              |          |
|  | 37  | ╅               | ++          | ┽┥             | -        | 87   |                    |         | ₩            | -4       | 4               | ₽4.                     | ┙        |          | 136 | $\Box I$        | 工                |              |              |             |           | T            |          |
|  | 38  | ++              | ╅╃          |                | $\vdash$ |      | $\dashv$           | +       | ₩            | 4        |                 | $\perp \perp$           | ┙        |          | 137 |                 | $\Box$           |              |              |             |           | $\neg$       | _        |
| _  | 39  | ┿┽              | ╌╂╼╂        | $\dashv$       | $\vdash$ | 88   | $\dashv$           | 4       | ₽₽           | 4        | _               | $\perp$                 | ┙        |          | 138 |                 | $\perp$          |              | L            |             |           | 丁            | _        |
| _  | 40  | ++              | ╼╂╼┿        | +-1            | $\vdash$ | 89   | $\dashv$           | -       | ₽₽           | _        | $\bot$          |                         | ┙        |          | 139 |                 |                  | $\mathbf{I}$ | L            |             | $\Box$    | 丁            | _        |
| _  | 41  | ╅╅              | ++          | +              | $\vdash$ | 90   | -                  | 4       | <del> </del> | 4        |                 |                         | ╝        |          | 140 |                 | $\perp$          | $\Gamma$     | Γ            |             |           | $\neg$       | _        |
| <del>                                     </del> | 42  | ╅╌╂             | ++          | +-             |          | 91   |                    | ┵       | H            | 4        | _               | $\Box$                  |          |          | 141 |                 | $\mathbf{J}^{-}$ | Ι            | Γ            |             |           | す            | _        |
|  | 43  | ++              | ++          | +              | $\vdash$ | 92   | $\perp$            | ┷       | $\sqcup$     |          |                 | $\Box$                  |          |          | 142 |                 |                  | T            |              |             |           | 7            |          |
|  | 44  | ╅               | +-          | 4-1            | <b> </b> | 93   | +                  | 4       | $\sqcup$     | 4        |                 |                         |          |          | 143 |                 | $\perp \Gamma$   | T            | T            |             |           | コ            | ٦        |
|  | 45  | ++              | ++          | +-             | $\vdash$ | 94   | -                  | ┵       | $\sqcup$     | _        | ┸               |                         |          |          | 144 |                 |                  | T            | Т            |             |           | $\top$       | ٦        |
| $\vdash$   | 46  | ╅╃              | ╌┼          | 44             |          | 95   | -                  | —       | $\sqcup$     | _[       |                 |                         | _]       |          | 145 | J               | $\Box$           | Т            |              | П           | 1         | 十            | ٦        |
|  | 47  | ╁┿              | ++          | +              |          | 86   | _                  | 4_      | $\Box$       |          |                 | $\Box \Gamma$           | _]       |          | 146 |                 | $\Box$           | 1            | П            | П           | $\neg$    | $\neg$       | ᅥ        |
|  | 48  | ╅╼╋             | ++          | 44             |          | 97   |                    | $\perp$ | Ш            | $\perp$  |                 |                         | _]       |          | 147 | J               |                  | Τ            | П            |             | $\neg$    | 十            | ٦        |
| _  | 49  | ╁╌┼             | ┵           | 44             | <b>├</b> | 98   | -                  | $\bot$  | Ш            | $\perp$  |                 |                         | _]       |          | 148 |                 |                  | 1            | Т            | П           | _         | $\top$       | $\neg$   |
| <del>                                     </del> | 50  | ╁┼              | ++          | 4-4            | $\vdash$ | 99   | 4                  |         | Ш            | $\perp$  |                 |                         | ]        |          | 149 | ┪               | $\neg$           | 1            | Т            | М           | $\dashv$  | 十            | $\dashv$ |
| Щ.   | 30  | ┸┸.             |             |                |          | 100  |                    |         | I⊤T          | Т        |                 | П                       | 7        |          | 150 | 7               | 1                | 十            | † —          |             |           | +            | -        |